## What You Should Know About Your Auto; How To Drive and Keep It

ispert Advice How to Keep Automobiles Running Smoothly and the Best Way to Remedy Machine Trouble-Traffic Suggestions and Pleasure Routes for Evening World Readers.

#### Bu GEORGE H. ROBERTSON.

HE automobile engine, although having reached a high degree of perfection and made of the best materials obtainable, is a piece of machinery requiring the same intelligent attention and care as any other high-class piece of machinery

Faulty construction is seldom met with these days, because of the tandardization of the component parts of the motor vehicle.

Careless and ignorant handling, such as insufficient lubrication, faulty, distinction of the fuel, ignition or water, overheating and many other numerous minor disorders tend to render the operation of the motor car very inefficient and usually makes a pessimist of the owner

Automobile Editor

Will you tell me what the tire lug is used for? I understand that its

are equipping their cars with the same size tires all around? Is this a good idea? SAMUEL THOMAS.

use is gradually being climinated.

When the gasoline is turned on, cam and shaft. Or they may be my carbureter continually floods. Is formed integrally with the cam-shaft there any way to remedy this condibute by either a forging or machinery protion?

tion?

If not caused by a defective float, beamine the float valve for imperfect sating. The leak may usually be copied by grinding the valve on its seat with a little whiting, or even grinding the seat and valve together without any abrasive, holding the yealtons and giving them a motion of rotation with moderate pressure.

Automobile Editor:

I have an Overland 1916 runabout and intend placing a run-board seat on same. Will you advise me whether the right or left side of car would be the safer? Have noticed most car's have the run-board seat placed on the left side.

Would not suggest the placing of the seat on the right side, as it would tend to keep the person riding in the seat on the low side of the road near the ditch.

line, and, if there is, what is it? T. M. COWAN.

When a car is not used for some time the gasoline in the float cham-ber losse its strength. Some people call this stale gasoline.

call this stale gasoline.

Astomobile lattor:

In cold weather, can a carbureter to frozen? STEADY READER.

When heavy demands are made on a carbureter it becomes very cold, as the heat called for to effect evaporation is more than that available from the entering air. Under extreme conditions moisture is deposited in the ferm of frost, indicating a temperature in the carbureter too low for good working.

Ausmedie Editor:

I have an old Loudnehile which uses the make-and-break ignition. I find I cannot get a spark in one igniter. Can you describe the trouble with this rystem? I HULBERT.

In make-and-break ignition, failure to get a spark is frequently due to the tappet spring. This spring must be quite stiff so as to cause the break to take place with considerable rapidity—the more rapid the break, the lotter is the quality of the spark, be contact points of the igniter leatrodes are subject to corrosion and wear. When they become pitted the contact surfaces should be filed import.

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Leated the state is straight and the manufacturers are equipping their cars with the same size tires all around? Is this a good idea? SAMUEL THOMAS.

without injury?

An engine should never be cranked downward against compression, for in case the spark has not been fully retarded the pressure of the carly explosion may overcome the momentum of the flywheel and drive the handle violently backward, resulting in at least a seriously sprained wrist. It is well for the novice to first make two or three turns with the switch on when the engine should start.

Automobile Editor:

Is there any advantage in an everhead valve meter and if so what are the advantages?

ARTHUR WHITE.

When the valves are placed so that they open directly into the combustion chamber it is possible for the gases to flow with leas friction on account of the direct passages and a combustion chamber is provided which has greater efficiency as regards heat leases than either the "L" or "T" form.

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Automobile Editor:

What is the difference between the

Oases than either the "L" or "T" form. beginner what the best position is for the spark lever under average run-What is the difference between the ning conditions? NEW CAR.

What is the difference between the inlet and exhaust cams and how are they attached to the camshaft?

I. B. R.

The difference between inlet and extended to be to came is in the cam profile, as this member intended to lift the exhaust valve has a longer dwell or larger and longer raised portion, because the exhaust valve is kept open ager than the inlet member. The image may separate forgings assembled on a piece of straight shaft and held from turning by means of keys and taper pins driven through both and taper pins driven through both motorial profile in the piston has just compacted a charge of gas and is ready to descend on its power stroke. In cars using this system of control the engine speed is regulated entirely by the throttle lever or accelerator pedal.

## PROBLEMS SOLVED

Automobile Editor:

I am having a little trouble with

the universal joints of my car. They need oiling, and I do not know how to proceed.

A. L. BRONSON.

tube axle, employing but one uni-versal joint, are provided with a separate oil lead from a mechanical

ciler or with a large grease cup which lubricates the ball joint in which the universal joint is carried as well as the parts of the joint.

George H. Robertson. America's foremost recing emeri, says!
"Automobile owners, prospective owners and men wishing to become chauffeurs should not fall to take a course in your achool."

Special Classes for Ladies

to proceed.

Universal joints are generally encased in grease retaining housings and do not need lubrication oftener than every month or every thousand miles of car service. The dirty grease is removed by flushing out with kerosene, and the joint may be refilled with transmission oil or light mineral grease, depending on the construction. Some universal joints are provided with small compression grease cups, which may be acrewed down from time to time, while others mounted at the front end of a torque tube axle, employing but one uni-Stewart Auto School

CHAUFFEURS or Motor Truck Drivers A Manual Langot.

## Training Trials at Local Tracks

IRMA FRANK mile, 147 2.5

JACK SCAT three eighths, 26.

KLMER mile, 10 2.5

KATHRY GIAN one-half, 52 2.

LADY CLINTON one-half, 52 5.

LANNER mile 1.5

MARNER mile 1.5

MARNER MILE 1.5

MARNER SENIRY one-half, 49.

MARRILLEHEAD, three-eighths, 26 2.6.

NEW RUYER three-quarters, 1.19.

NO NEW RUYER three-quarters, 1.18 2.6.

PHANTON three-eighths, 26 2.6.

PHANTON three-eighths, 36 2.6.

PHANTON three-eighths, 36 2.6.

PHANTON three-eighths, 36 2.6.

PHANTON three-eighths, 36 2.6.

PHANTON three-eighths, 1.66 2.6.

ROLLY a five-eighths, 1.66 2.6.

ROLLY a AMER T. five-eighths, 1.09.

AIAM B., free-curbile, 1.08.

AIAM S., free-curbile, 1.30 2-5.

AIAM M. A. seventh-eighths, 1.30 2-5.

AIAM AIAM. Aire curbile, 37 2-5.

AIAM AIM. Air.

EREEZE, one-half, 49 3-5.

Lity ove-half, 49 3-6.

Lity ove-half, 49 3-6.

Lity ove-half, 49 3-6.

CANDY LAND, three-quarters, 1.16.

BARLOUK free-dighths, 1.05 2-6.

CANDY LAND, one-half, 55.

LATTERISEN, 1.00 co-half, 55.

DATTERISEN, 1.00 co-half, 56.

DATTERISEN, 1.00 co-half, 56.

DATTERISEN, 1.00 co-half, 56.

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DENILOPER, 1.00 co-half, 56.

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ERINGOUS, one-half, 56.

ERINGOUS, one-half, 56.

GAIRAGE, three-quarters, 1.20 co-half, 56.

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GAIRAGE, three-quarters, 1.22 co-half, 56.

GAIRAGE, three-quarters, 1.27 co-half, 56.

GAIRAGE, three-quarters, 1.27 co-half, 56.

in order to obtain the best results
from its operation.

The handling of an engine embraces, in addition to the attention given the motor, the care of the fuel, coeffice, and further recessions were made during the first hour in an extreme of the fuel, coeffice, and further recessions were made during the first hour in an extreme of the fuel, coeffice, and further recessions were made during the first hour in an extreme. No real council is during the first hour in an extreme of the fuel by dull market. Reading dropped becooling and ignition systems. A low 101 and the Zinc shares showed knowledge of ignition and the carconsiderable losses. There was not considerable losses. There was not bureter is essential to the owner enough activity to give any meaning RE. Pitts. Cost Co... Copper. 

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A Tilly or A Tilly & Taxa Species	61.67	81.44	8117 -
The Paris Street	27.77		74.45
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Lm. Can	365.5%	01910	50.7
im. Lascomotive	777-04	74	77 1
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Am. Car & Vdy. Am. Car & Vdy. Am. Can Am. Lacomotive Am. Lacomotive Am. Woollen Co. Amaconda Monna	No.	54.74	84%
TANF	1005.56	10536	105%
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Marie Parket Language	A 1 100	200	10.00
Court Bar Barrers	*****	100	230.0

The management of the motor includes not only the necessary conditions of operation and control, which are easily learned, but also the numerous troubles and mishaps that might be met with met with these days, because of the ris of the motor vehicle.

Such as insufficient lubrication, faulty, the fuel, ignition or water, overheating orders tend to render the operation of smally makes a pessimist of the owner and point after Memorial Day. Final prices and Rumsly 16 after Memorial Day. Final prices after Memorial Day. Final prices Southern Pacific 100 and From the prices of the showed fractional losses ranging up to a point. Reading lost 21-2 points; Studebaker Co. 122% Southern Pacific 100 and Pacific 100 and

ITEMS FOR INVESTORS Southern Railway's earnings in-reased \$252,509. Third week in May. rom July 1, increase totals \$6,207,249.

Mackay Company's regular quarterly dividends of 1 per cent. on the pre-ferred and 11-4 per cent. on common stocks, payable July 1 to stock of record June 9.

Northern Pacific for last ten months has earned surplus equal to 8.70 per cent. on the \$248,000,000 stock.

#### GUARD OFFICER OUSTED.

Pennsylvania Major's Dismissal Laid to Plattsburg Activities. PITTSBURGH, Pa., May 27.-National Guard circles were stirred to-day missed by Adjt. Gen. Stewart. Gen. Logan admitted that he had

THE 25c SIZE

STOPS PAIN" INSTANTLY

**VALLEY GROVE** 

STR. "MONTAUK" 14 Fare 40c.

Mehard, Adjutant on the staff of Brig. Gen. Albert J. Logan, hus been dis-

saked Gen. Stewart to take such action. He failed, however, to give any reason for the request. Major Mehard's activity in the mill-

National Emblem. ALBANY, N. Y., May 27 .- Wednesday, June 14, was designated to-day as Flag Day by Gov. Whitman, who requests the people of the State to "show their loyalty to the national emblem by

RADWAY'S READY RELIEF

LINIMENT

STEAMBOATS.

# Sunday, May 28th, & 75c

hours ashore, returning leave 5:00 P. M. Dining Room, Lanch Counter, Retreshments

### TIGERS FAVORED TO WIN

and the Plattsburgh camps were held largely responsible in military circles for his dismissal.

#### JUNE 14 TO BE FLAG DAY.

lovernor Urges General Display of

its display on their homes, places of business and on all public buildings." The day is the one hundred and thirty-ninth anniversary of the national flag.

Rub It On \ It Does Not Blister



All Wheat Ready to Eat

THE ORIGINAL HAS THIS SIGNATURE W.K. Kellogg

here is only one Krumbles and that is the new whole-wheat food with the delicious flavor originated by the Kellogg Toasted Corn Flake Company Look for this Signature

BIG ROWING RACE TO-DAY. ITHACA, N. Y., May 27 -- Cornell,

Princeton and Tale varsity and freshman crews are ready for the big contest

against Princeton and Tale in the var-atty race. This is not surprising, as the third combination is the fastest of the Red and White crews for the short course. The first varsity probably may be saved for the Poughkeepsis regatta, it being essentially a four-mile crew. on Cayuga Lake this afternoon. On the Hughey Burke a Clausy Amateur.

basis of previous performances experts favor the Tigers in the varsity contest, but little money has been wagered.

Coach Courtney is considering send-selm A. C. of New York proved an ing the third Cornell varsity crew easy winner last night at the ama-

teur boxing tourney of the Ward Democratic Club of Jersey City, forcing Young Kierna of the latter forcing Young Kierna of the latter forcing Young Kierna of the latter than the cod of the

SOCKS FOR WOMEN. Bocks for women are not pre and therefore won't do, says the Dry

REAL ESTATE FOR SALE-

REAL ESTATE FOR SALE-

REAL ESTATE FOR BALE-

Goods Economist.

Why did dyes, chemicals and metals GO UP? Because the supply is LIMITED. Every sale had a tendency to raise the price of what was left. IMPROVED RESIDENTIAL WATERFRONT PROPERTY IN NEW YORK CITY IS LIMITED—this particular property has a beautiful esplanade right on the Ocean-has beautiful modern homes has sewer, sidewalks, gas, electricity—all City Improvements. Do you see the opportunity at "EASY TO REACH" L'IANHATTAN DEACH With Lots at \$1,000 Each? Make a Decision Now. Profit by These Opening Liquidation Prices. Elevated Trains and B. R. T. Trolleys All Day and All Night. You Can Bug for Cash or on Easy Terms. The Property Is Restricted until 1925, with Titles, Guaranteed. SALENCE WELL STATE OF THE PROPERTY OF THE PROP

# OCEAN LINES AMBOATS WEL TO GO AND HOW TO GET THERE

STEAMBOATS.

# UP THE HUDSON @1

Make your Sunday a perfect one by taking this happy, 150 mile trip up the Hudson-A day filled with pleasurefromstart to finish. Time, if you like, to visit the amusements of Orange Lake, or to ascend lofty Mt. Beacon. Str. "Benjamin B. Odell" teaves Franklin St., 9 00 A. M.; W. 129th St. 9 10 A. M. for Newburgh, Beacon, Poughkeepsie, and return, Music, restaurant lunch room. CENTRAL HUDSON LINE

Iron Steambost Co APANE OCEAN 'TAURUS' CONEY ISLAND

Schedule for SATURDAY, May 27 PANEN, IZOTU ST. STEEPLECHASE PARK Str. "GRAND REPUBLIC"

**Special Up Hudson Trips** Sunday, May 28. Decumbled Day, May 30, Sundays, June 4, 11 and 18. Stopping at High LAND PALLS both ways. One hour at NEWBLEGH.

Leave Per I. N. B. 550 W. 1295 St., 10,30, Volters 11 A. PARE from N. Y. 75. June 19. St. St., 10,30, Volters 12 A. PARE from N. Y. 75. June 19. St. St., 10,30, Volters 13 A. PARE from N. Y. 75. June 19. St., 10,30, Volters 14 A. PARE from N. Y. 75. June 19. St. June 19. June 19. St. June 19. Jun

## **EXCURSION** TO NEW HAVEN

Sunday, May 28 Tuesday, May 30 Steamer RICHARD PECK

Music, refreshments, Tickets \$1.00; children 50 cents. Tickets on sale at Piers only on day of excursion.

# To Boston

## Fall River Line

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Commonwealth and Priscilla

Afternoon and Evening Concerts by the

Fall River Line Orchestra, are All-Year Features Leave Pier 14, N. R., foot of Fulton St., Daily Lv. New York ...... 5:30 P.M.

Due Boston (Back Bay).....8:22 A.M. Due Boston (South Station)...8:27 A.M. \$1.00 and \$2.00 Outside Statercome. Inside Statercome have outside ventilation and are always cool and comfortable.

Tickets, Staterooms and Information at City Ticket Office, 171 Broadway. General Offices, Pier 14, North River THE NEW ENGLAND STEAMSHIP COMPANY

BEAR MOUNTAIN

45 Miles Up the Picturesque Hudson SPECIAL TRIPS Sunday, May 28 and DECORATION DAY, MAY 30 The Fast Steel "HIGHLANDER"

MUSIC, DANCING, McAllister Stht. Co.

KEANSBURG, N. J. Bare 8 30 A M. T. S.

\*9 30 P M (\*Stop at Karport). Troller connec TOURS.

SPECIAL Trips Park, Labermond, Old RATES Washington, Hooking R. St. N. GLOBE TOURS,

World Wants Work Wonders

HUDSON RIVER DAY LINE Daily except Stunday for Dash at the second of the control of the CATSKILL EVENING LINE

EXCURSIONS.

KCURSIONS Lake Hopatoong St DECORATION DAY

Also SUNDAY, JUNE 465, AND EVERY SUNDAY AND HOLISAY Lv. W. 314 St., 8.50; Liberty St., 9.00 cm. Mauch Chunk \$1.50

Le, W. 214 St., 8.20; Liberry Sr., 8.10 a.m. Jackson Ave. Jersey City, 8.47 a.m. HARD COAL -- NO SMOKE -- COMPOSE VIA NEW JERSEY CENTRA